

Red Lake Labs



TIMING LIGHT GENERATORS

Red Lake MilliMite and MicroMilliMite Timing Light Generators produce accurately calibrated electrical pulse outputs at 10, 100, and 1,000 cycles per second for the specific purpose of triggering neon glow lamps for putting timing marks on films produced in high-speed or other roll-film cameras. The units are usable with any moving-film cameras having a compatible timing-lamp assembly.

While the outputs of the two models available are essentially identical, the MicroMilliMite, illustrated on the next page (Model MMTLG-2B), is designed to withstand the rigors of airborne or rocket-sled-borne operation. Its physical design is therefore very sturdy and its operation is from a nominal 28-v d-c power source.

The MilliMite, illustrated above (Model TLG-3) has proved itself as a unit that gives accuracy well within the working range of the technical requirements of normal high-speed photography at a cost less than half as much as that of otherwise competitive instruments.

Both models have solid-state components and externally selectable pulse rates. The MicroMilliMite has all components epoxied to the best-quality circuit board avail-

able, yet the components can be easily removed for servicing. The MilliMite has in addition a battery-check circuit with an indicating voltmeter. Use of a Zener diode automatically compensates for the voltage drop of an aging battery.

Simple removal of four screws and an electrical plug permits interchange of the 45-volt internal battery of the MilliMite with a corresponding 115-v a-c power supply and power cord, making the unit extremely versatile as to application.

FEATURES:

- *Designed for application—two models cover normal and rugged-service needs*
- *Solid-state components for reliability, compactness, and low power consumption*
- *Light—MilliMite, four pounds with battery; Micro-MilliMite, only one pound*
- *Versatile—three pulse rates cover all normal film speeds. MicroMilliMite for 28-v d-c operation; MilliMite either internal battery (45-v) or 115-v a-c.*

more ➤

continued

TIMING LIGHT GENERATORS

SPECIFICATIONS

Pulse Rates, externally selectable, cps

Pulse Widths, μ sec

Pulse Amplitudes, volts

Pulse-Rate Accuracy, at 75 F, per cent
(overall, -20 to +165 F, accuracy ± 1.0 per cent)

Pulse-Rate Adjustment

Pulse-Rate Monitor

Operating Power

Compensation for input voltage and
ambient temperature variations

Dimensions, inches

Weight, pounds

MilliMite

10, 100, 1,000
(other frequencies on special order)

150, 150, 50

900, 900, 700

0.2

Internal, screwdriver

Neon panel lamp

Internal battery or
115-v 50/60 cps a-c

Transistors and
zener diode

5 by 6 by 7

4

MicroMilliMite

10, 100, 1,000
(other frequencies on special order)

150, 150, 50

700, 700, 700

0.2

Internal, screwdriver

Neon panel lamp

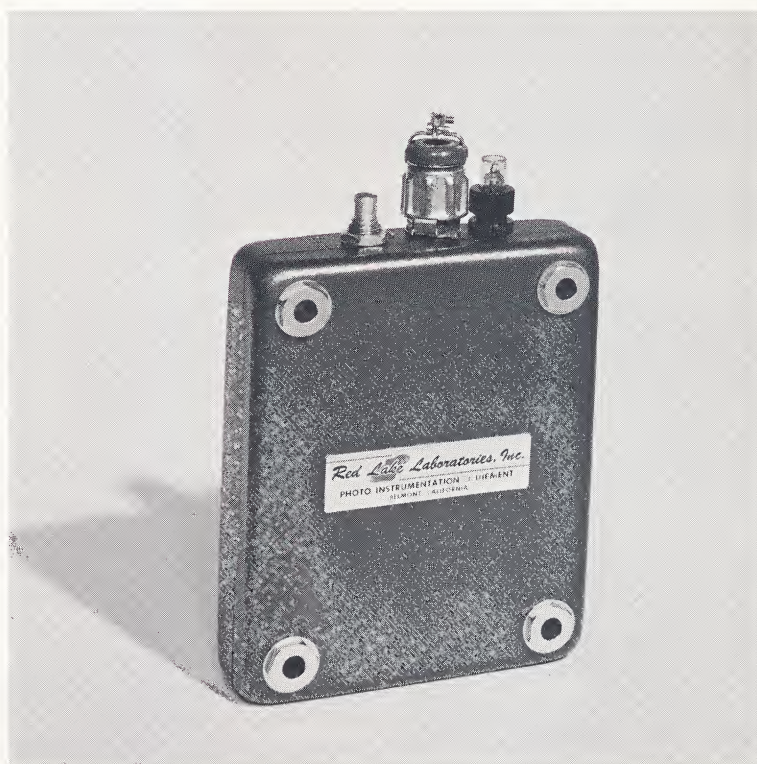
External 28-v d-c
(operable 17 to 35-v d-c)

Transistors and
zener diode

1½ by 4 by 5

1

Rugged design and construction fit the Model MMTLG-2B Red Lake MicroMilliMite Timing Light Generator for the most adverse environmental applications. Externally selectable pulse rates are 10, 100, and 1,000 cycles per second; weight is only 16 ounces.



Red Lake Labs, Inc.

PHOTO INSTRUMENTATION EQUIPMENT

Products the User Likes

2971 CORVIN DRIVE

KIFER INDUSTRIAL PARK

SANTA CLARA, CALIFORNIA 95051

(408) 739-1698



MODEL RLTRI-1 TRIPOD

This tripod is recommended for use with 100' Hycam. It is a sturdy light weight versatile unit with a worm-gear elevator post. It has a spring loaded geared 90° tilt head. Weight: 13 lbs.

Manufactured for Red Lake Labs. Inc., by Quick-Set
RED LAKE LABS. INC., Santa Clara, California.



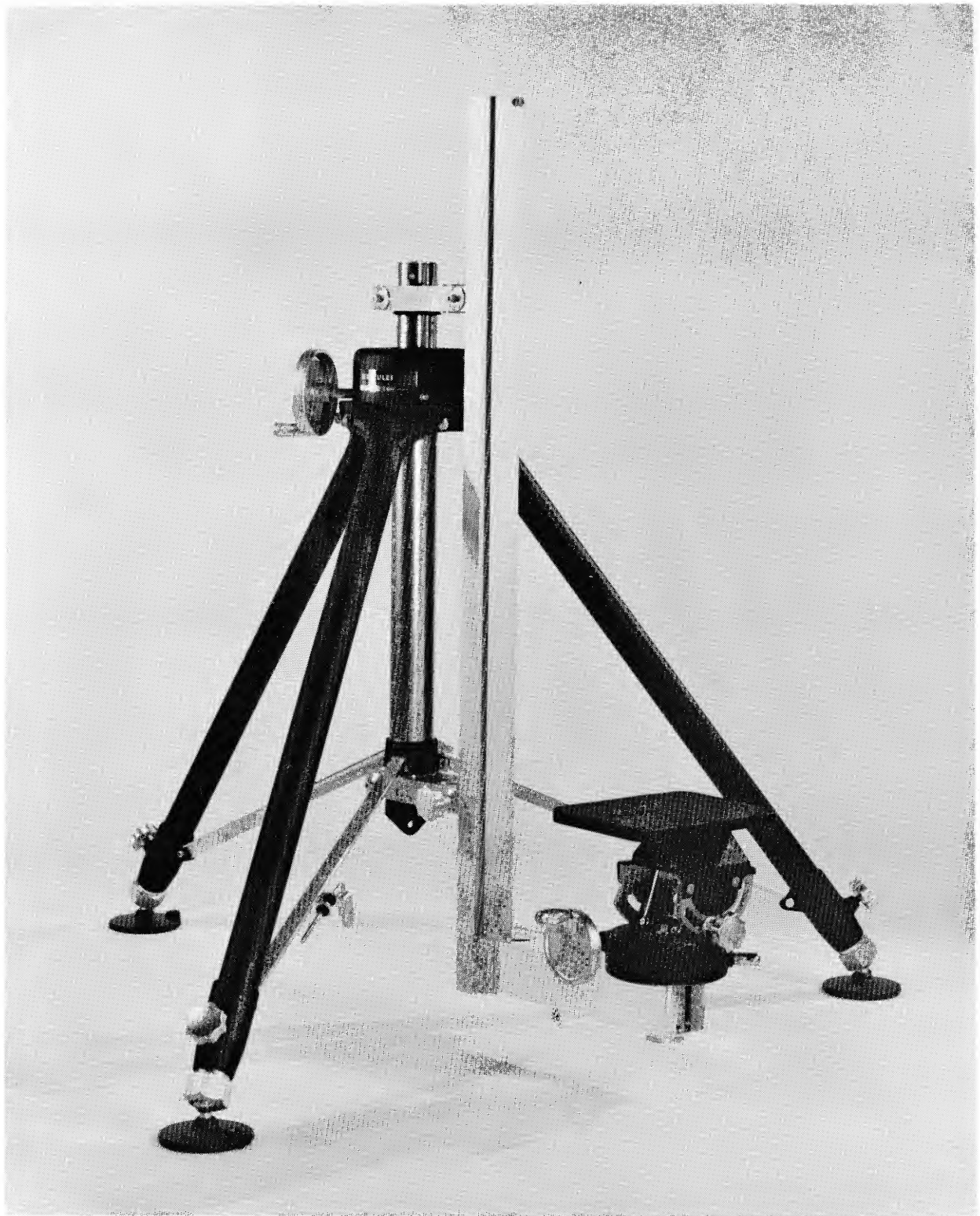
MODEL RLTRI-2 TRIPOD

This tripod is recommended for use with any of the 400' model HYCAM cameras. It is a heavy duty tripod with a hand crank elevator, with a hand crank geared tilt head to 90°, with a 360° head rotation, with firm locks in all positions.

Weight of tripod: 27 lbs.

Manufactured for Red Lake Labs. Inc., by Quick-Set, Inc.

RED LAKE LABS. INC., Santa Clara, California



MODEL RLTRI-2 WITH MODEL RLLH-2 LO-HI UNIT

The Lo-Hi unit can be purchased as an accessory which allows the camera lens center to be lowered to within 22" of the floor.

Weight of the Lo-Hi unit: 10 lbs.

Manufactured for Red Lake Labs. Inc., by Quick-Set, Inc.

RED LAKE LABS. INC., Santa Clara, California



MODEL RLLi-1 LIGHTING UNIT FOR USE WITH Hycam

A 1000 watt quartz iodine lamp, reflector and housing with adjustable stand. This photo shows a heat absorbing glass and bracket in front of the lamp. The heat absorbing glass decreases the light only $\frac{1}{4}$ stop and decreases the heat by 85%. It puts out sufficient light to cover an area $1\frac{1}{2}$ ft. x 2 ft. and shoot Hycam at 6000 pictures per second with tri x neg. at f5.6.

Manufactured for RED LAKE LABORATORIES, INC. by Colortran



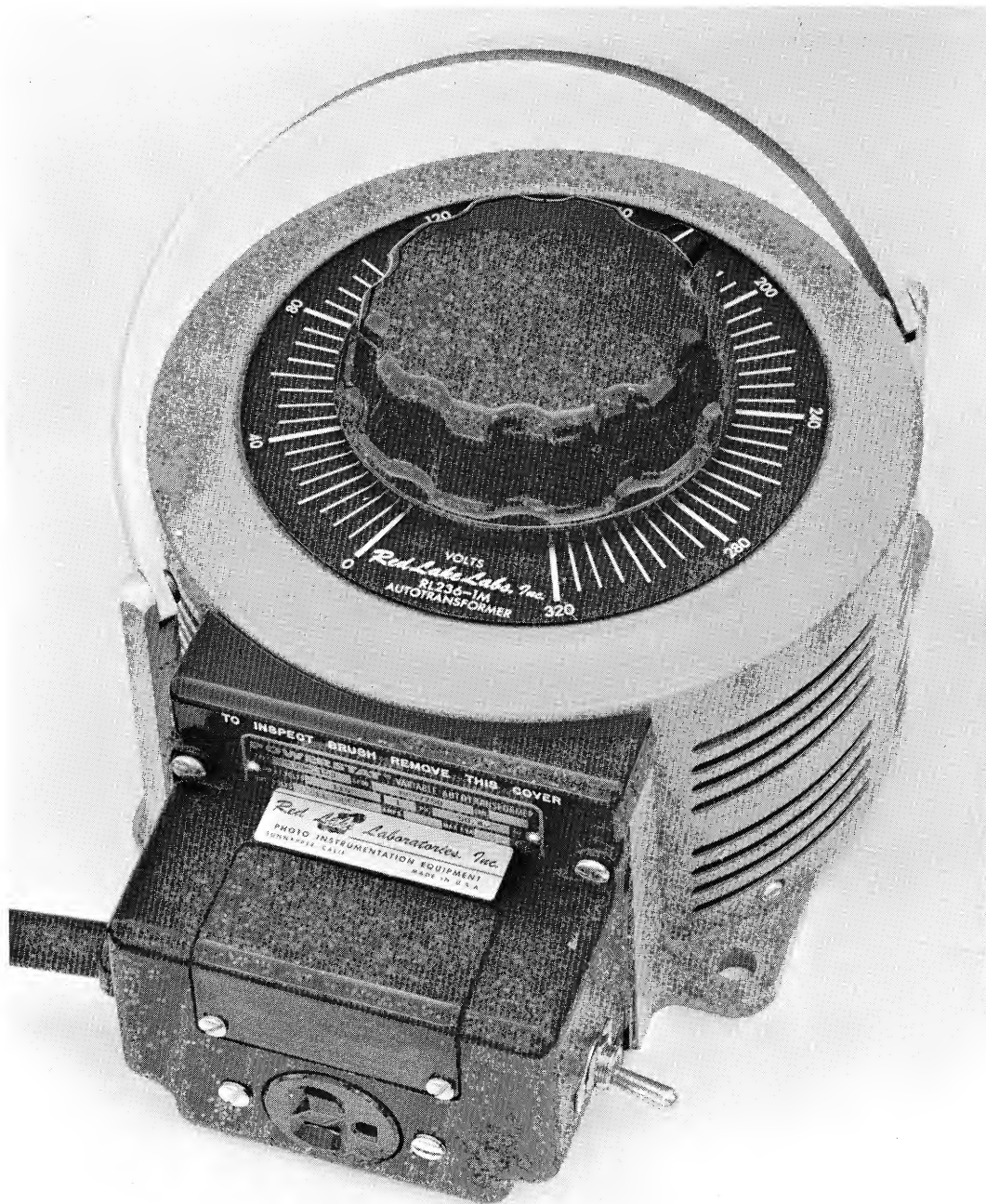
MODEL RLEM EXPOSURE METER

A reflected light meter with a 3 degree acceptance angle for accurately determining the proper lens F number simply. It is recommended for use with any of the HYCAM camera models. It has rotating movable scales for setting of ASA numbers and light levels. It then reads out directly in shutter speeds at given F numbers. It is also an excellent exposure meter for regular photography.

Weight of the Exposure Meter: 1 lb.

Manufactured for Red Lake Labs. Inc., by Honeywell, Inc.

RED LAKE LABS., INC., Santa Clara, California



MODEL RL326-1M POWERSTAT

This variable auto-transformer operates all models of HYCAM cameras to their top rated speeds. Dial reads directly in volts, has sturdy convenient carrying handle, heavy duty input cord, off-on switch, and grounded household type outlet and protected with 10 Amp fuse. Weight of Powerstat: 23 lbs. Available in either 115V AC or 220V AC input.

Model RL326-1M, 115V AC, 15 Amp., 50/60 cycle in, 0-320V AC 50/60 cycle output.

Model RL326-2M, 220V AC, 15 Amp., 50/60 cycle in, 0-300V AC 50/60 cycle output.

Manufactured for Red Lake Labs., Inc. by Superior Electric Co.

RED LAKE LABS., INC.

Santa Clara, California